

GREENBERG

1982 - Warbler
Collection by

1983 - New
England

7530-00-222-3521

FEDERAL SUPPLY SERVICE

(GPO)

1982 log of

the Wubker collection

March 1942

As of ~~20~~ 27 March

I had 26 warblers:

7 C SW

4 BBW

6 My W

4 MW

4 CMW

before leaving for Puerto Rico
I upped the light to $13\frac{1}{2}$ hrs.

I C SW began to molt \approx 2 March,
sub-singing was at a low level,

but involved several individuals.

The week after I got back

22-30 March I upped light to
14 hrs (too much!) - since no
birds had begun to molt but
CMW blue.

(C yellow/black then molting)

1st week of April +

My, H, P, P, & K yellow

were in spring plumage via blue.

~~by A~~

Singing W's intense by last few
days of March - in C W, MW,
BBW, BTB w. in particular.

March 24 I placed BBW R^(P)
B+R(♂) in double Avery
with Hemlock branches +
doweling. I put Blk + pink +
yellow in 25 March 30 to 70]
Avery.

Red + Blue-Red also got
CJW C+L, BW next day
but BBW chased CJW too
much & CJW BW may not
have been eating

Blue + Pink + yellow show
little aggression, but Red +
Blue + Red had to be
separated. Red in spinner
right-hand Avery.

March 26

We offered soaked carrots
to all 4 birds & Blue +
pink + yellow went for
them in a big way!

They immediately then
got juice.

We put all wobblers back
on egg-shell mesh &
stepped up vibration.

BBW

March 27-28 ♂♂ are singing
a lot + ♀♀ are pulling at
foliage + attracted to white
exclusion. ♂ also follows ♀
around (♀ is skittish, hids
♂) & some aggression is
noted.

Both ♂ top perch - further
front part of cage a lot.
No sign of molt.

All birds are tame around
people + visit food dish readily.

April 5 I took pink, ♂
red + green ♀ My L +
B♂ + PY ♀ CJW to bird house.

They are put in large white-metal
cages. The situation is
more disturbed than is good.

All birds are at play around
& p. of Avery a lot.

Apr. 6 9:00 B♂ CJW w/o
cage outside at 7:30 am by
keeper. All birds but him
approach food dish when I
watched - 3 My L to ♀ My L a lot.

Wolff's Warbler

1 May: non-singing bird low to 10'
breakfasted grub then
scratched small tuft &
probed at 6' Maple duck box
✓ + probed 2-3x at newly
emerged maple leaves. (Longwood
fir, short white)

3 May: singing ♂ in deer park?
shot, then 50' in tree

✓ gland leaves 7-10 times, including

2 times + pronounced exhal.

Blue tit, 1

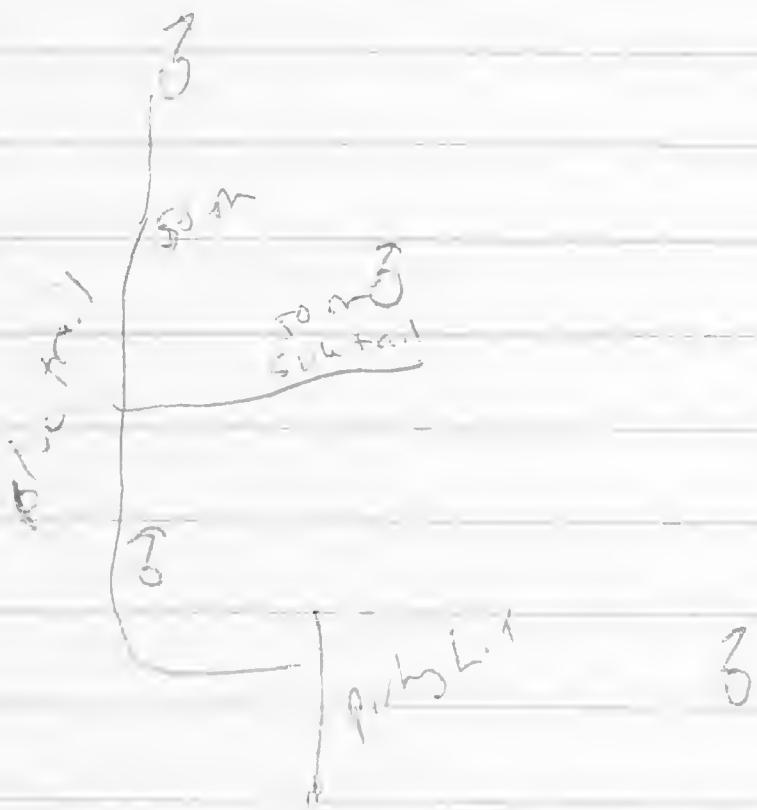
✓ ♂ - Eq LD 8+ petiolate gland 1
chess + 0.4 x 15-20'

✓ ♂ hgx1lb, hgx2lb, turgid -
Eq 1b x 5 ... silly = 35 - reg -
stomach

✓ ♂ hgx1lb, 1bgl x 4 - chess + 0.4

✓ ♂ Lbgl x 2 - no skin

4 May Sault



Low on cedar road -

✓ ♂ in underlay 3' - Laurel ^{Dried} 1st cheek

Flu to chestnut cedar - 4 lb 31

5 May 7:30-11:30

Access Rd.

♂ 46' in c. oak. 22 lb - 19 stem

✓ ^{Thick}
1 b. broken
1 l.f. prim-order

~~minim~~

WER 9

other species 5. Towhee 4-6

Wren 15

REV 6

T.Bunting 6

C.SW 2

BTB 4-8

YRW 20

PT.Towhee

B Jay

C. Chickadee

L. Wren Thrush 18

YU ?

H. Wren 1

C. Flycatcher

white trill I walk = 300 m +

found 4 ♂ WER.

About 100 m I found 3 ♂

in close proximity - I found

✓ 1st ♂ in D.L 30' - 1b, slx 3

1 hz ~~at~~ br. glam, 1st prim-order star -

5 May

then I saw it dive into dense

brush 100' down trail

level und. veg. I heard lots of

feint chirps - & saw at 100'

2 W.W. chickadees with wings slightly

spread - both very wavy & thin,

so I assume both were ♂♂

✓ I saw both fed, prob. diet leaves,

(no hig. or leaf) - 9 x - all 0.4

leaves in Level. 2nd S up in oak

then 1bx 7 + got 1 ^{brown} green (homop?)

break 1bx 1 - & saw T-10 min

1b green by both birds in oaks

✓ I saw sin ♂ 40' up in flowering

O.K. (hot chestnut Oak) - 10x if paired at O.h. (Klein).

~
1/2 hr later I returned to

spot of bark extraction, with

10 minutes 3 bx, one bark
in sun - chirping.

✓ I saw 3 bx (2 yellow)

I dried last ^{green} bark & did bark 2' up

bird landed on ground briefly

1 bark green.

May 730-

in St-C-Berthe ch. e. Des tout -

2 weeks from portion lot

3 weeks since 20. c. o. h.

→ good even white w. (2nd m.
color: Rusty, I in 2-2

✓ $10 \text{ gl} \times 10 (3 \text{ m.y.})$ bushels
petroleum & 1 lb. hy

W.E. in sand (gravel)

(horizontal) bushels 100 -

✓ 7x 10gl

Farm 20. in 90 - ch. - 0-0

111 2

✓ $10 \text{ gl} \times 12$ bushels

flour, etc. 12

hyd x 2

etc. x 2

✓ chart to category by piece

in Ash - 0 L. + granite

300 hyd

10L. - m. sand

etc. -

Mph unloading bushels

8 8 8

8

✓

10L. - 7

2 unloading

3+4 view in area around
forky start at beginning of
blue/white trail

shot 20cm down trail I saw 2+ but
✓ oak snags ~40 1b, 1x4 x height x 3 -
caterpillar

3 seen oak until about 2'
in air blue trail
thrust quickly 0-1' off
ground

about 10 feet away & chipped with
mister fact.

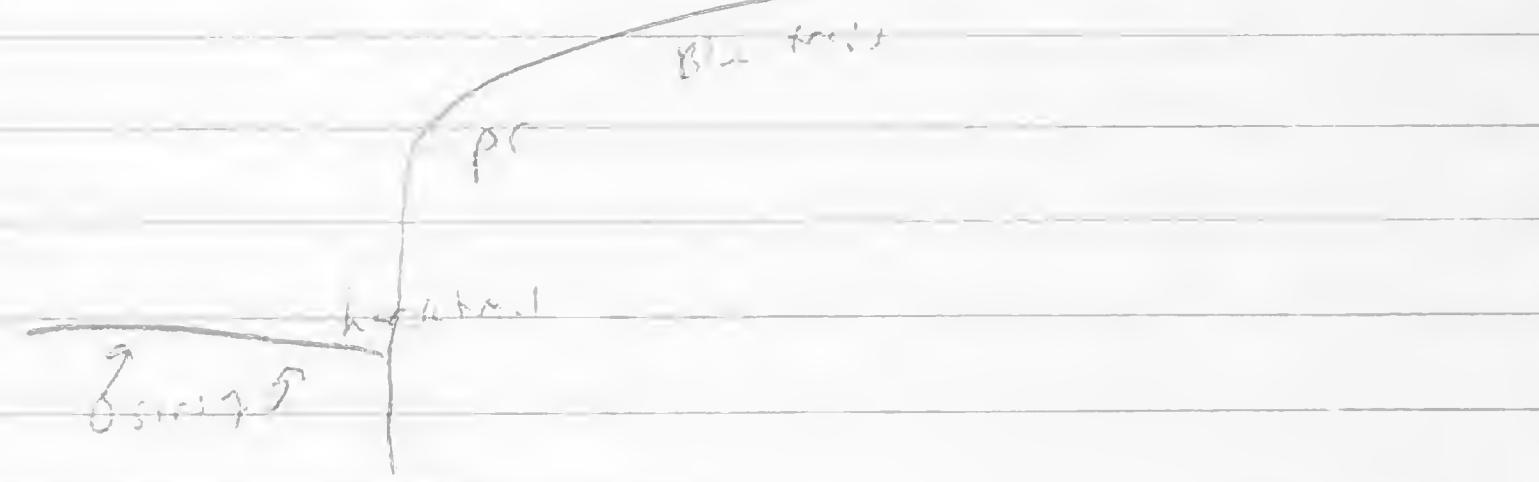
✓ ♀ - Azalea bush 1' x 2' with 1-2 prhu
catch her 1?

at curve in trail I shot her
- 1 root & part in - oak snags
✓ 12-15 lb (25 hang, 1b)
2 pink & colored fact.

✓ 4 oak 1b, 1x4

2 Larch in stream

bush birds flying in now
tree



I went down blue trail

at junction of blue trail & blue

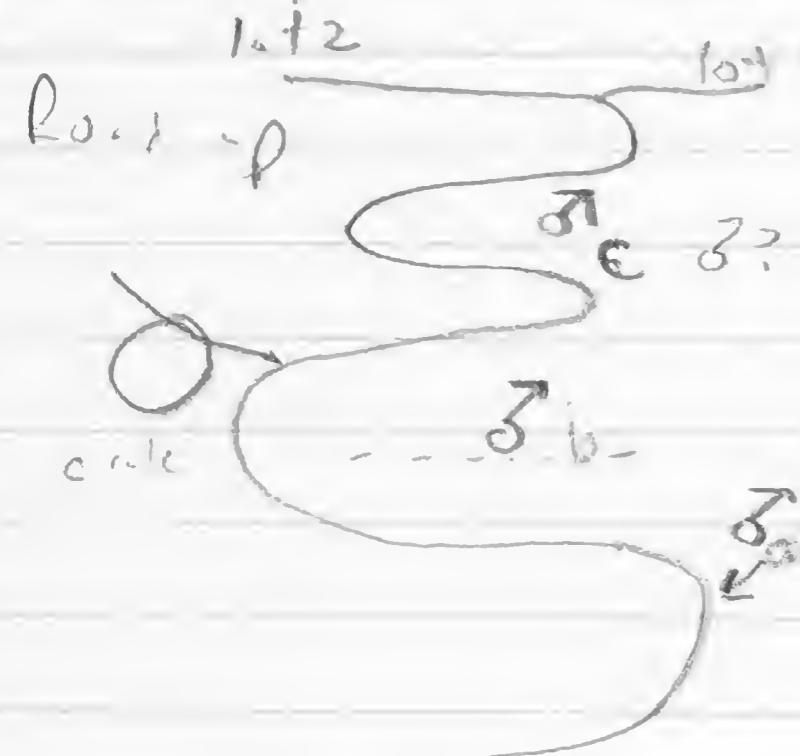
✓ 6 snags 30' in oak 1b, 1x4
lengthly

on larch pink area 1b

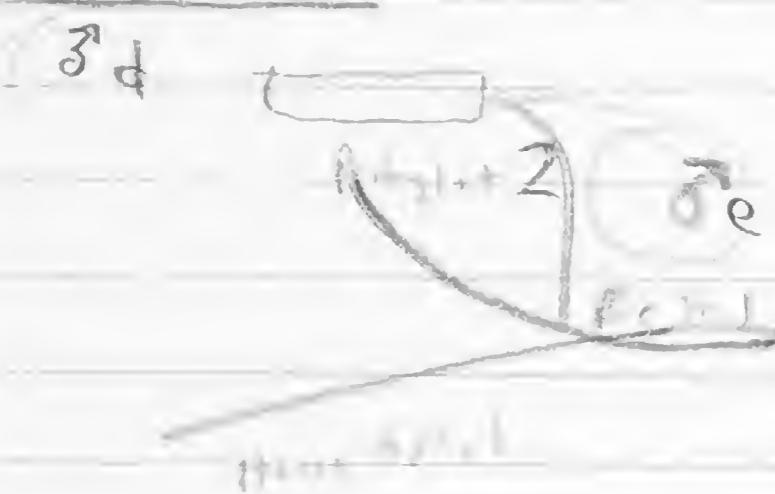
✓ Sun 1b - 5 1b, 1x4 -
hang

36' above oak

13 May 730 - 1200



~~solid~~



Furrowing date

✓ a: 20' High cock - 1b x 6
remp. 11c

✓ b 30' cock 1b 1/2 10b x 5

✓ c 30' cock 1b x 5

✓ 13' p big x 2 - trunk 31' 1

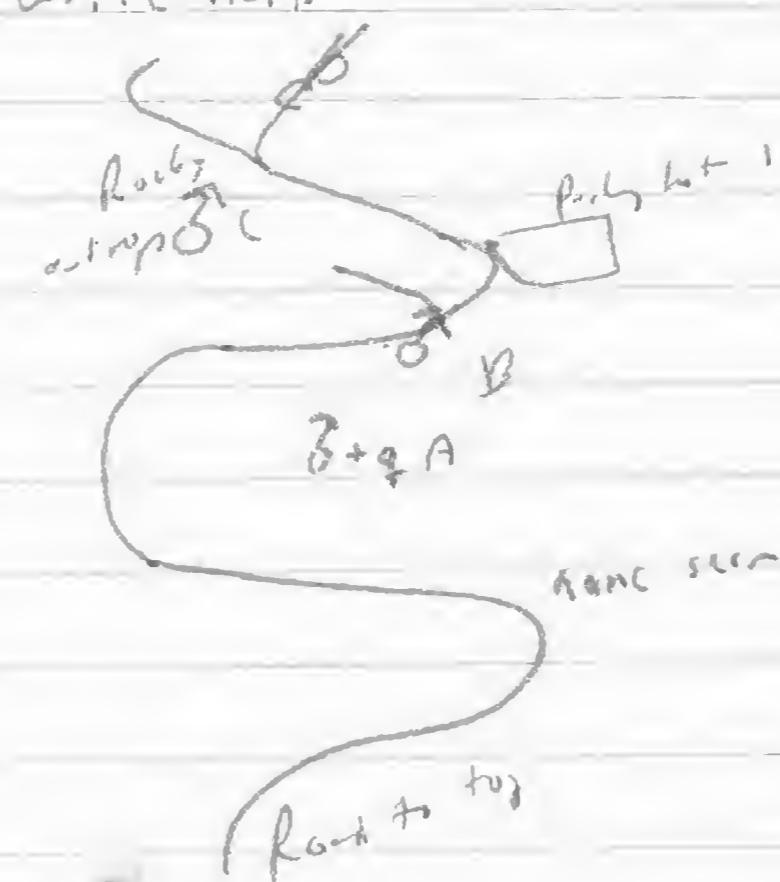
1b g x 5

✓ 40' 1b g x 7

✓ 8d continue to dig mine
from low down - but 1
sec m. 99

May 17

walked up Rock to top plat
to burning of Blue + Horse tr. +
white tr.



50% A chard g Q w/o on

ground a lot "lucky for

nest site?) no trees or

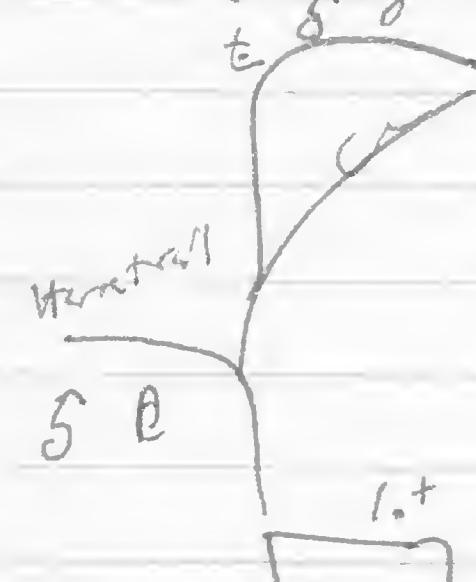
gravel 5' from 10' shrub.

✓ 60' 35' c.o. with leaf damage

leaf green >10 3 caterpillars

5
h6

✓ 3 c 5x8 dbg 35' c.o. 1 caterpillar



✓ Male P 30' c.o. 1 hsl, 5 - 1 hsl x 1
2 (110, 110)

✓ Male D 35' c.o. 1 hsl x 1

✓ Male R 35" c.o. 1 hsl x 2

May 18 8:00-12:00

Stayed at top area

Watched breeding sites when

8:00-9:00 1:30-1:45

tree (or shrub). hd pr

Small times clipping in

skipping a few more up

✓ 40' c.o. - pair 2x leaf and
skipping 3+ 1 couple

one bird mobbed me 2 times

♂P in widely separated places

♂ - a nest singing at a 11

May 17



① 6' our trail slope

went to Blue trail 8'

✓ 30° c.o. level probe x 5

Set 3 angles

our Blue trail which 8 at Bird

✓ 25° c.o. 11st x 3 level probe x 5

to 5' our slope.

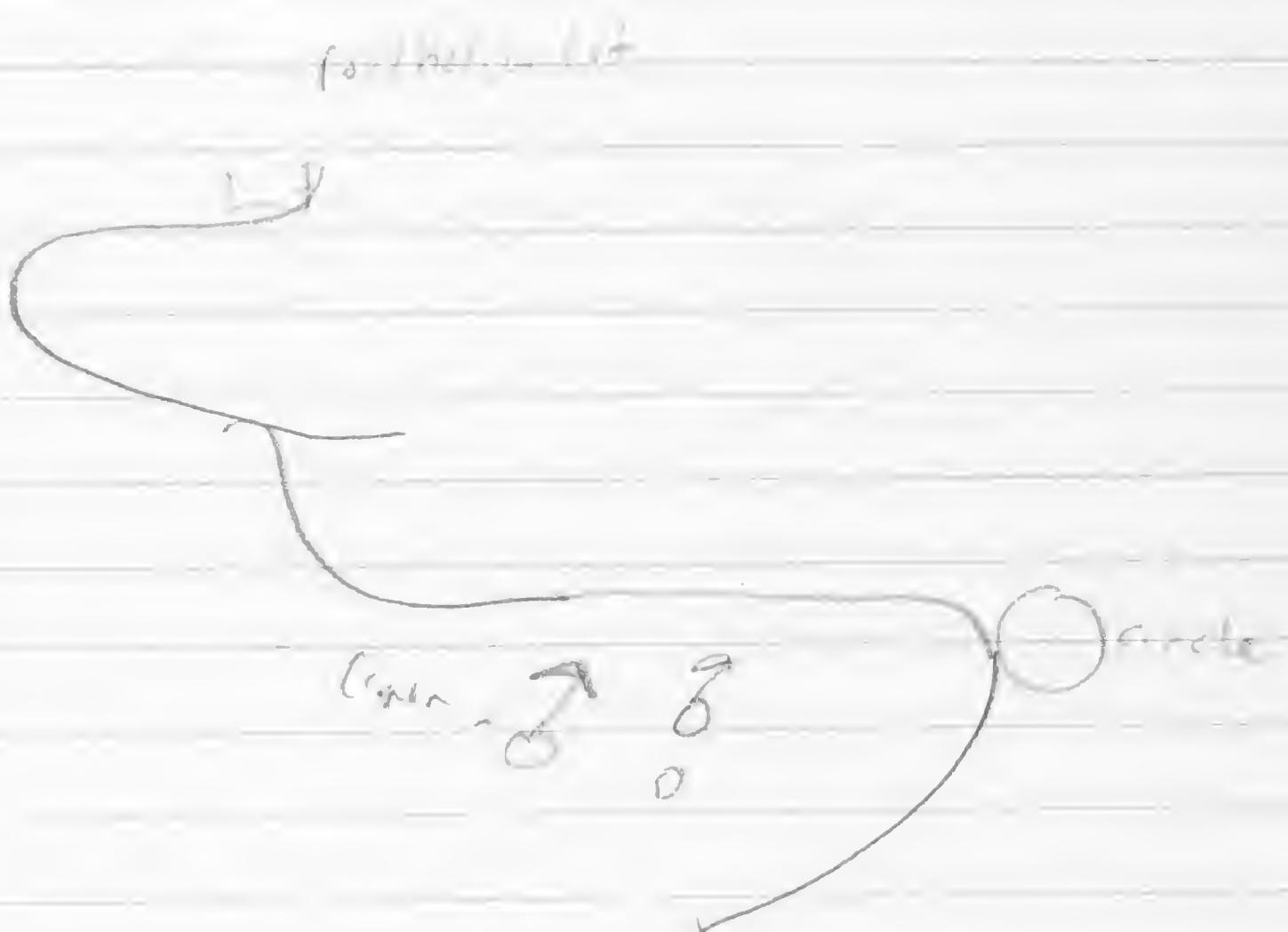
went to "canon" area - the 3rd 2

8 m. each other

✓ 0' are after putting - 20° c.o.

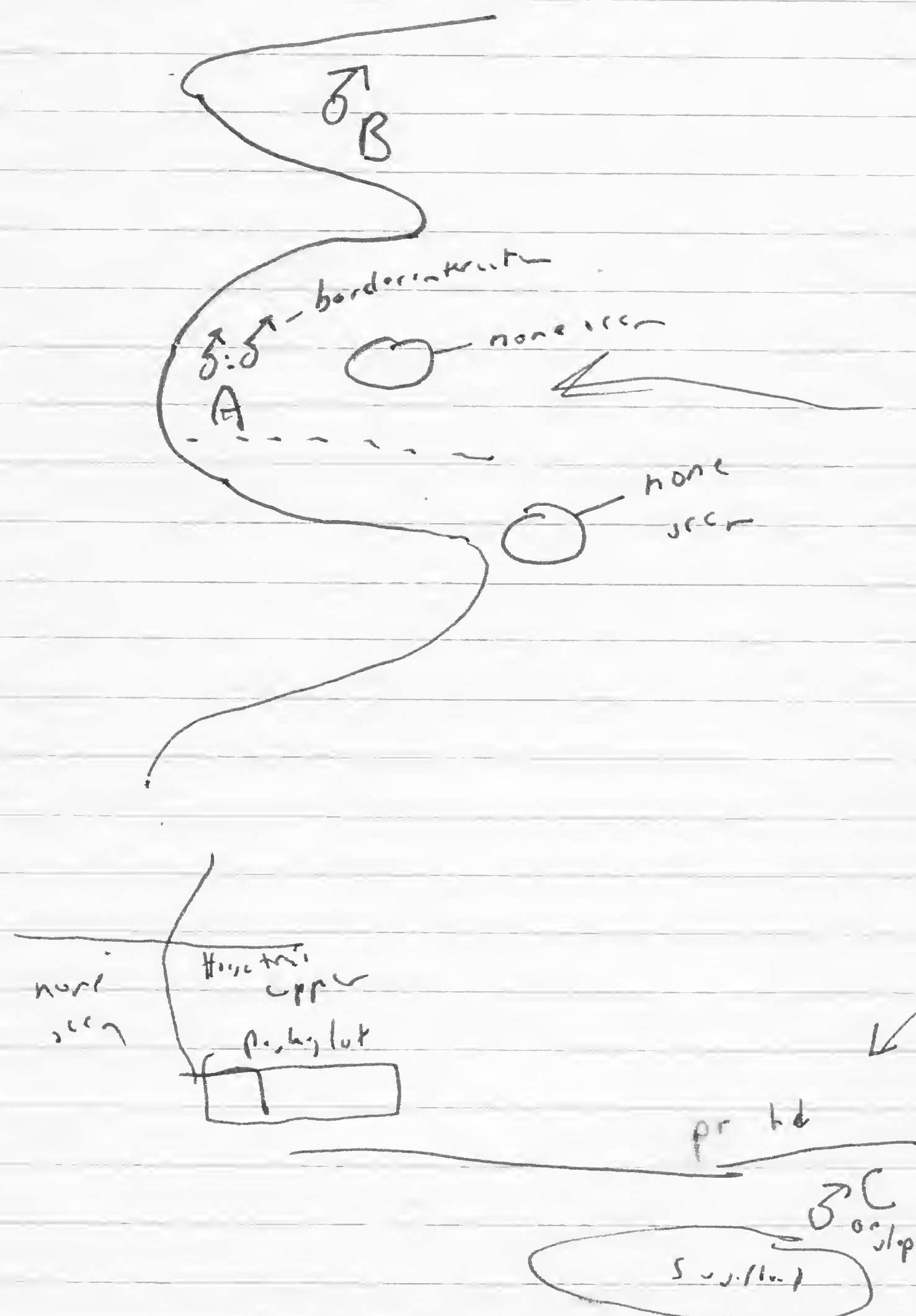
1 b31 x 2

✓ 7.5' 8' level probe x 5 - 1st
2 b31 x 2



19 May 830-1230

I checked the following territories



✓ ♂ A 5-10' 1b glen C.O/Aztec
ground feed, Peck lot
prob x 2

✓ ♂ B 40' 1b gl

✓ ♂ C 20' hq @ 2' 1b - 1b, l x 4
C.O

note
Territories where ♀ have been seen

♂ stop singing all together

singing, L, stopped on a

third trill.

↑ see ♂: ♂ interaction

at territory A - as usual

chop bill place near ground.

Monday 23 May 1200-1300

I checked territory by ^{white} Blue Trail -

saw & heard nothing. ♂ was

singing in the forest on slope.

I cut down toward Blue trail

from white trail & found ♂ juv 2

low in undergrowth (Clock (big) x 6)

if went into ^{forest} bush &

continued to sing.

♂ at 1st census at ~~at~~ P. tr. 1

could not be found, nor could

♂ at Horse-trail-Blue-trail set.

I went to lower peninsula area

(by farm) & from roadside +

grew ♀ flying rapidly 20'

✓ in oak (big) x 3). FL

dropped onto ground & disappeared

It was in a nest - located

under the small hollyhock plant on

open hillside. - ♀ laid a few bird

egg.

I collect 100 leaves from lowest

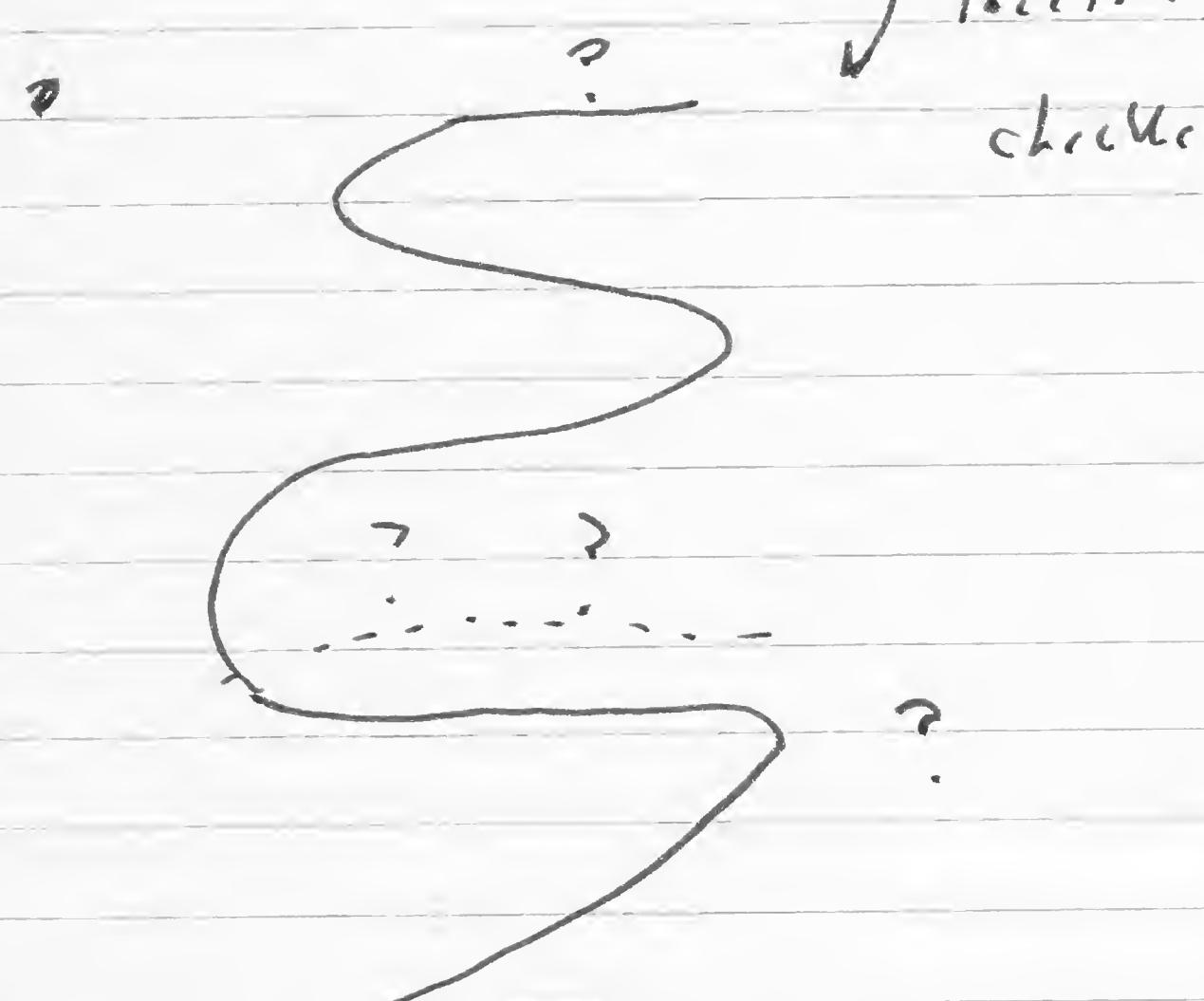
tr. 1.

Tuesday 24 May 745-1245

I check a number of

tree-trail today without hearing

or seeing a WEL.



location

checked

+ I checked trail +
side of white trail for
territory approximately 1 hr -
I Ld birds claim at
one point.

27 May - cool breezy 730-3:00

checked first terr. by at bird

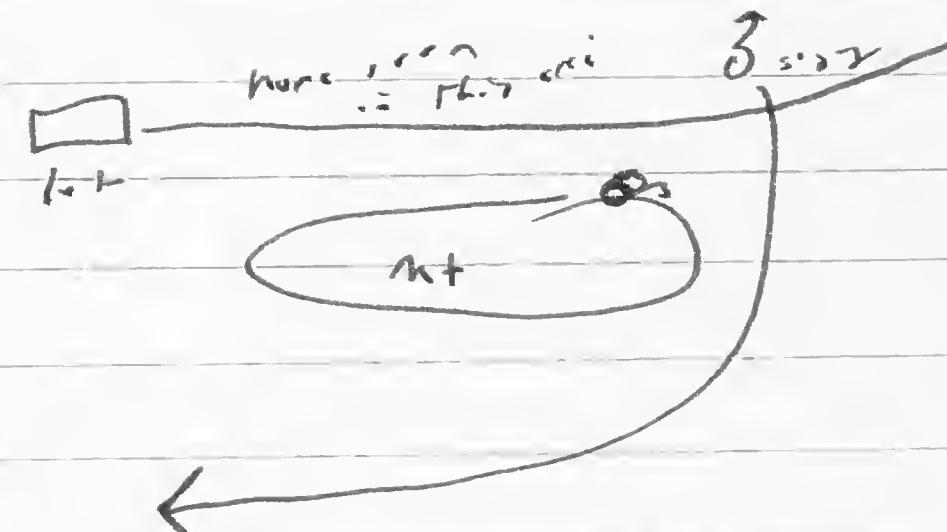
of road - no birds seen.

went up to circle area where I
followed singing ♂ 15-20' : c. o.c.

1 big x 15, 1 t.s. x 2, hy x 2, left edge
✓ probe x 5 hy 2" - got 2 → 'pillars.'

went to top parking lot + checked

slope below the trail 3rd

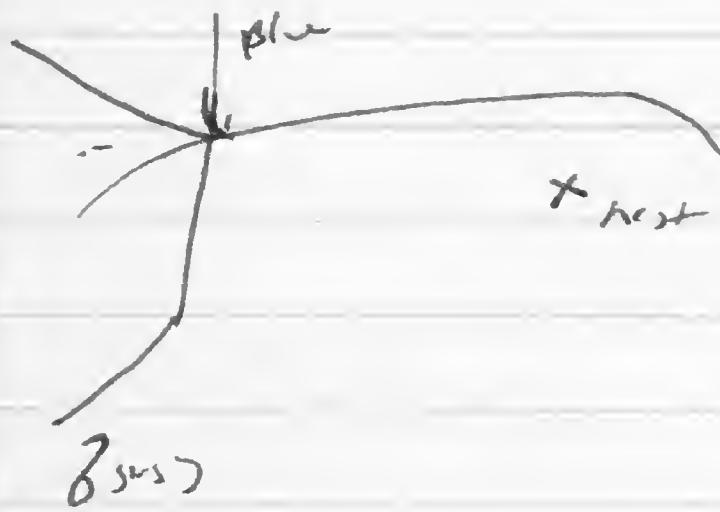


✓ watched for 1 hr no see.

10' 1 big x 5 hy 2" x 1

found nest in tree at
intersection of Horse Trail & White tail

I checked slope below
white tail + then
F checked slope at first
bend in road + saw no more



♂ bright in black pillar - ♀ sit

carrying from trail out to writing

once again at base of small shrub.

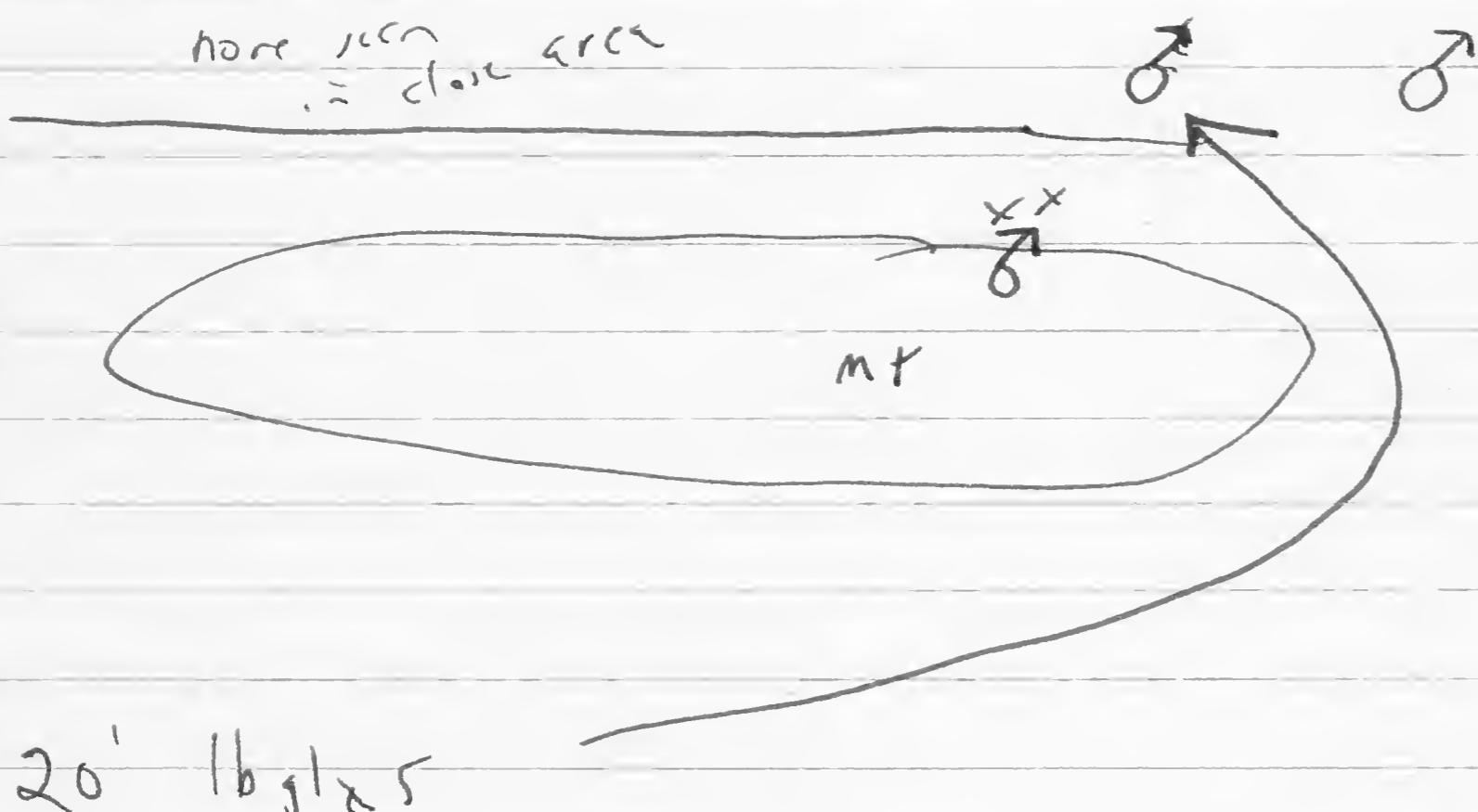
3 young, 1 hatched, 1 egg -

✓ I found singing ♂ on blue tail bird
• 10' 1bgl x 5 C-shk
got 1 pillar
bark glaze

28 May 800 - 1:00 cloud, + chm

chukar slope below white tr. 1

sun + hd 4+ ♂. ♂_{sub}



Found F.E. Virco nest with 3 eggs + 1 broken

egg

30 May 800 - 3:00 pm

cloudy - showers until noon -
then clearing up.

I walked up rd - thought =

hd sisy ♂ along first stretch -

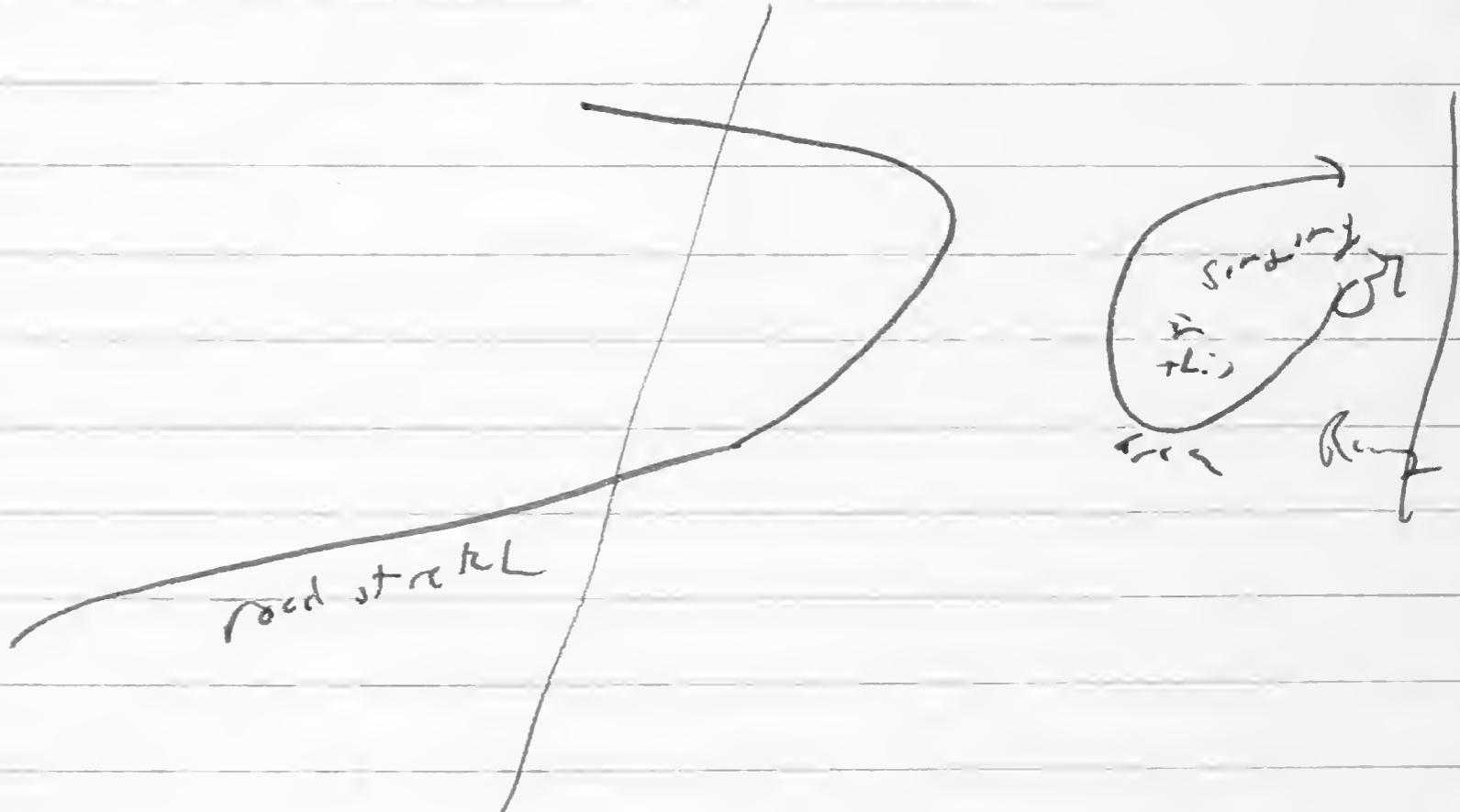
checked "corner" territory + sun

2 new chuk & chipping trl

hd 2 S ♂ sisy. ♂ sing from

west - rd

trail
American chipping



✓ seen low in Rd - road 10' 1bgl

The 5 song 20' C.O.U.

✓ 1b gl x 5 Dim. & lat gl x 1

I drove to top I checked
area above trail + saw nothing

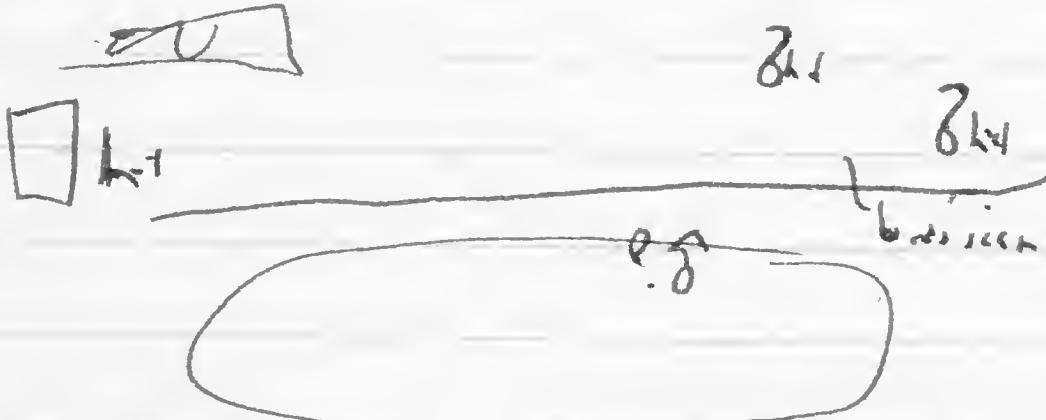
I drove to top + walked slope

below white trail. hd 4? 8' i.
^{l bird}

area - saw bird come from tree
in underly might off nest.

✓ 20' 1b gl C.O. dead lat (Bch lat
hanging in oak gl) + brach gl

2nd bird - dead lat oak gl. in L-shaped gl.
^{3hd} _{8hd}



I took nest at Horse trail + Blue trail

- two empty + nothing in

stream near opening. ^{LEU} bird + REU

mobbed me 20' - + chucked
chipping bird

dead lat cluster in oak (Bch lat)

I found bird at Blue trail
[♂]

bird sing in

Vanderberg (6') 1b gl

nest - pred. rd.

House ml

I called 100 times

near traffic circle

31 May 815 - 300

Hi Top Parking Lot Area

overcast to partly cloudy

✓ I watched from Talus slope
The slope facing S was sun for
tall oaks. one down one -
SL - no Q4.

I walked along slope below white
trail & saw 2 sets? of
♂. The first: - one ran
right out of Laurel shrub. I
sat down & Id soft chirping
(creaky-like chattering) + Log Azalea
(i.e. thin I sat.).

✓ 2nd is 3rd ♂ + it preened
itself + another pretty chipping

✓ bird moved farther though

undergrowth - obviously ♂ calls

go up to low canopy.

♂ from undivided sun
soft + shortish song

foraging: under oak and log
near log &
C. O. log & log (♀) +
(Hv)

It forage for + pulled

♂ - did not check oak leaf in oak
leaf. did not (oak leaf)
~~foraged in leaf~~

✓ 2 times I heard Purse
in ground.

I probe oak leaf - got pollen

New ♀?? in thicket

My 37-1208 overcast

Lef (versus) - 1000 level

(500 feet etc.)

50-0

50 - 4mm opiloid H

3mm bluish black lb

50-0

50-0

50-0

50-0

50 - 7 mm tan - brown - H

50-0

50-0

50-0

50 - 50 - 2m?

50-0

50-0

50-0

50-0

50-0

TO - 6 3 n. fly lb

- TO - 0

50-0

TO - 4mm opiloid

2/1,000

Sandstone 50

(2 cm under crop) 11

2mm spider lb

2mm larva lb

6+ 4+ 1mm mites, lb

20

15 1mm mites, lb

4mm fly H

2mm larva lb

20 - 0.6 9mm mite lb

50 - orange 1mm
blue p. & H

Hairy TO

cheesy - TO

light blue TO

2+2 mm larva lb

1cm 1.4 p. lb

1mm blue p. lb

2mm spider lb

6. Oct 125

3mm fly H

120] 6. Oct 50

2+3 mm blue spider

1+ double

2mm bacteria lb

" TO

- 0

7mm spider H & fly

2mm bacteria lb

" TO

7mm spider H & fly

2mm bacteria lb

Hickory 50

" 50

1cm right

-J

Oak 50

0

? 50

2cm away, 1b

Maple 50

-0

Sassafras 50

30
min top

Hickory 50

-6

Maple 50

4cm 28mp 1b

Maple 50 -0

✓ Hickory 50

0

Maple 50 -0

Maple 50

C. Oak 50 -0

Maple 50 -0

3m 2 unripe mp 1b

4m open 1b

Hickory 50

2-2m-hmp 2b

3m black + red

cathedral hump 1b

Oak - 100% 50

0+

2m open 1b

Maple 50

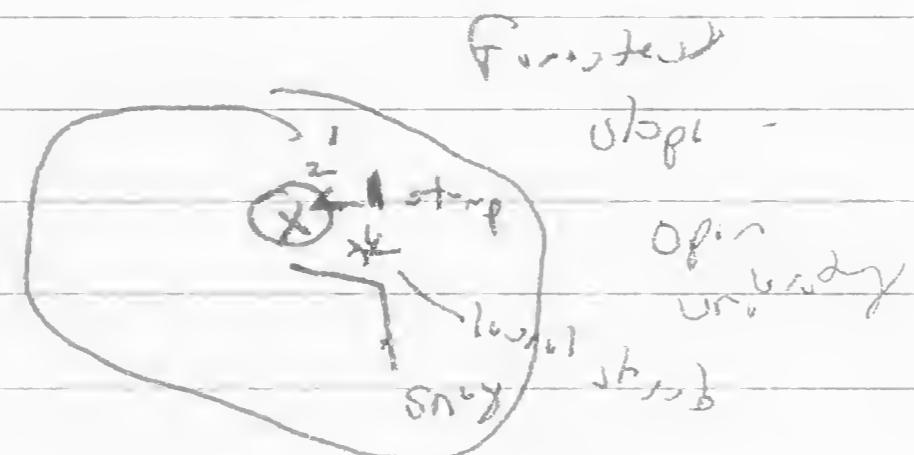
Hickory 50

-

10/15/00

Map to Br. L. bly
N.W.

2 June 830 -



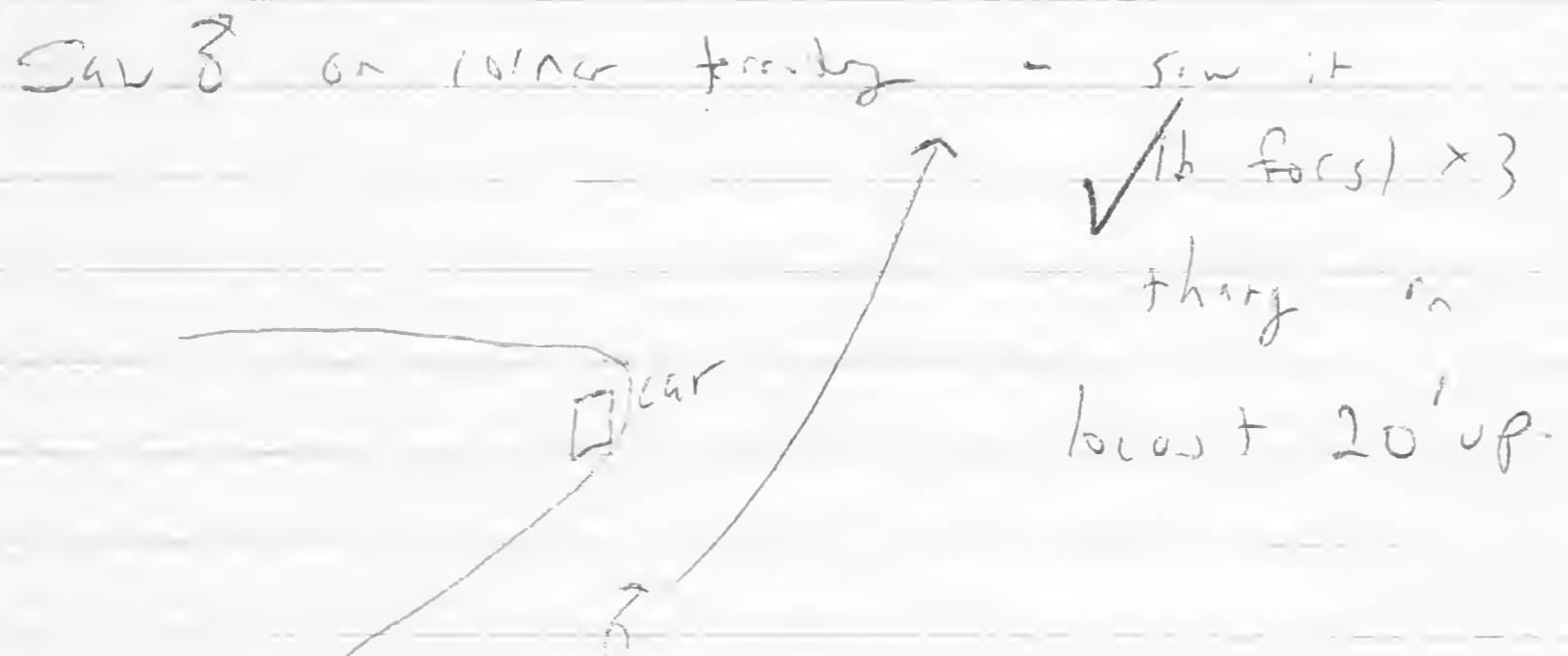
I check slope below white trail

+ saw ♀ Dusky Warbler off nose

it was in small trees + foliage

glanced a couple of times (also
creeped in tree trunks)

I watched singing ♂ wew-
probably the same bird



I followed 5131.

As I went ♀ was in

chirping softly. Cut start

in bush. ♀ flew away
following g.

I also saw a shore-tail in

Flight when I went up to

Camp to feed. She visited

Spot on ground repeatedly -

getting food. I caught

found nest at base of

large shrub. Lark finished

& forgot many in subcropy

Chirping trees (1 bl. tree 1 bgl x 5

15-25' up. as did ♂

3 ct hole of Mountain wren

singing as well.

Front
Sunder - Klarer
stump

Big Rock

Insect census

1230 suny-wndy

Beech tree

Maple TO -

Hickory

C.O

C.O

C.O

Hickory

C.O

Maple

C.O

C.O

C.O

1cm + thin green

caterpillar 1b

thin thrips 1b

TO 3mm w.wg 1b

TO 2nd spd 1L

TO - 0

TO 1mm w.wg 1L

TO

TO 2+ thrips 1b

TO - 0

TO - 2mm spw 1L

roll-moth

TO

TO roll-moth

C.O

TO - 0

C.O

TO - 0

C.O

TO - 0

700

C.O

TO

R.O

TO

C.O

TO - 0

C.O

TO

Hickory

TO

but cut small sun flower

Maple

TO

3mm w.wg 1t

C.O

TO

Sunflower

1T

2m p.w. 1b

-

NO C.O TO

Hickory

TO

2+ 3mm h.p.g 1b

Myl 70 Interv-ade

Myl 70 -

Huy 70 5mm m.Lb

1.0 50

1.0 50

Myl 50

4/1500

Alurel
fence 70

70

70

50

70

50

50

50

50

50

50
500
700

50

50

70

50

700 hom, th

OO

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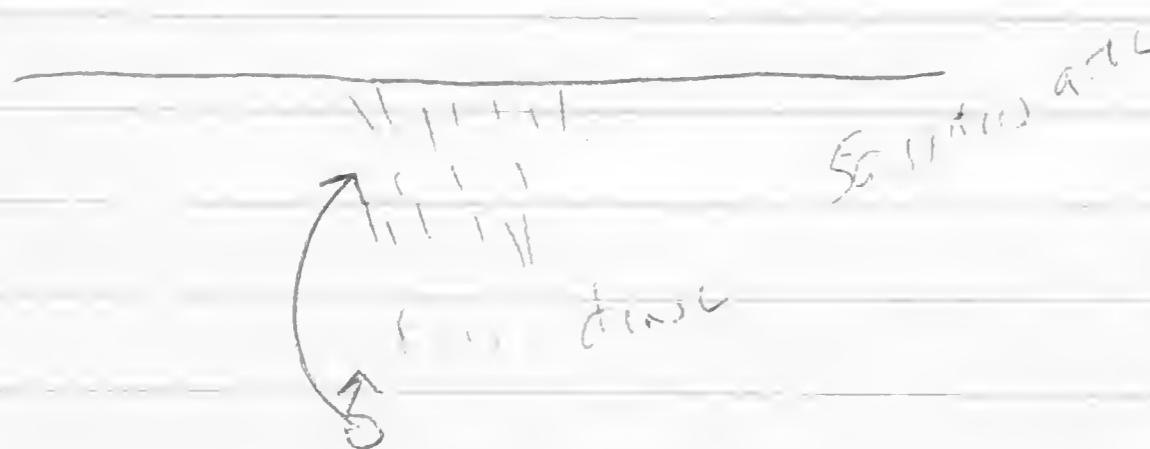
OO

2/1,000

saw 5 hawks white tail singing

underlay 6' - local 1bgl x 6,

sub. dirt



1/2

checked corner territory area
& found no warblers

I then checked slope where Brewster's

nest still had 5 eggs.

To check kindly at mid-slope -

few q off nest today early

6-10' dock 1bgl x 3

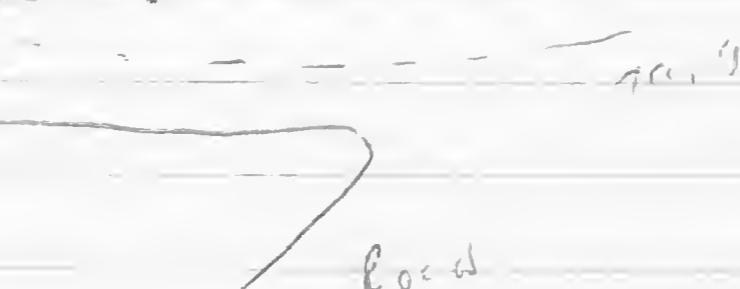
✓

bait 15 lbgl (1 caterpillar)
hang 1b x 2

Painted buntings feeding young - now

placed

q nearby



Leaf Collection #3

base trail

5

Spiders

1mm		(3)
4mm		(3)
5mm		(7)
9mm		(1)

14

Millipede

14mm (1)

5

Grubs

8mm		(1)
12mm		(1)
13mm		(2)
20mm		(1)

5

pupae (dep) 10mm (1)

Beetles

1mm		
5mm		
6mm		

3

Leaf Collection # 4

circle

Spiders

1mm		(4)
3mm		(3)
4mm		(2)
5mm		(6)

Total = 13

Grubs

10mm		(1)
11mm		(2)

Total = 3

millipede

15mm (1)

Opilionid

3mm (1)

Ant nest (one)

with eggs
and pupae

Beetles

1mm		(1)
2mm		(1)

3

Moth couple 1cm 1

1/3 830-1330 mostly
sun & warm.

but a fox in back for

I went up road &
checked corner territory &
locating above path - LUNGS

sexual marks beforeappy
back on.

was singing over ruins later

I check slope over &

in morning - but I saw

found no more LUN.

no ♀

I checked area ^{alone} near Circle

I found ♀ & ♂ LUN

on slope & saw no LUN.

(now a rat snake)

early this in evening near P. by

I collected Duck laws &

✓ woodpecker (big) x 5 in

first party lot.

Loc. 6-10) - ♀ to apply

I checked P. by next -

but eggs still - ♀ got off

5 June 1983 800 - 300 pm.

warm 80-85 h, L clou.

checked lower terr. by - ♂ singing.

checked slope terr. by sun

♀ off nest feeding rapidly - ♀

Juvin - ♂ & ♀ were close

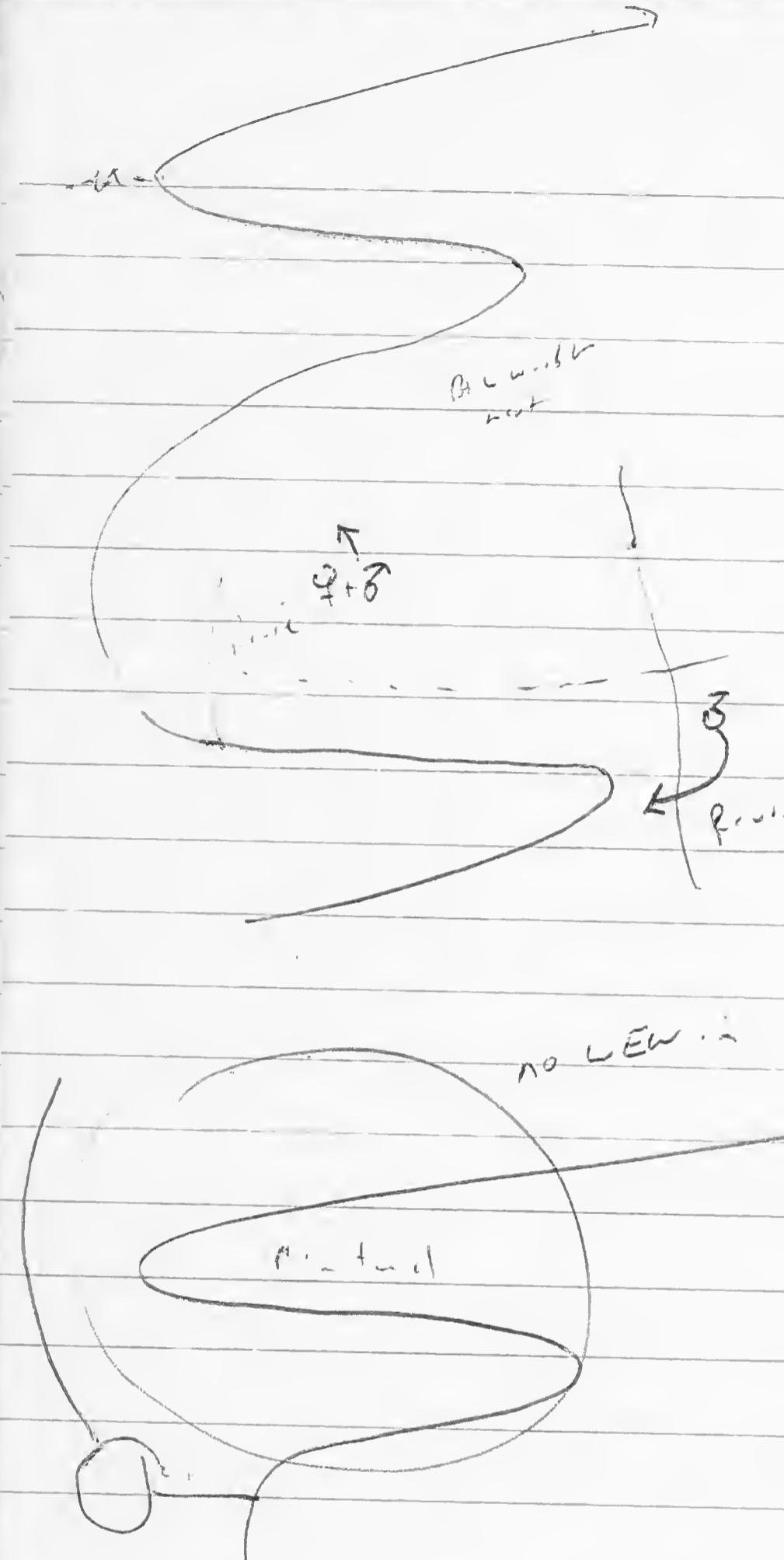
♂ gathered ~ 5-6 green grubs in
bill - couldn't see where he went.

Saw him down slope later.

Came back in afternoon singing

→ ♂ feeding rapidly - got sick

brown grub + went up slope,



Feeding:

✓ ♀ - locust 6' 1b gl x 5 1b hwy.

✓ ♂ locust 6' 1b gl x 5, 1b hwy + 1
1t gl.

Desmodium 10' 1b gl x 3 - dead
dead oak leaf cluster
my tree got the something

carnation 5 - locust 6' 1b gl x 3.

Found ♂ in dense grasses
Plush it below white tr. sedge.

I saw 3 on slope at Mtn -

no ♀.

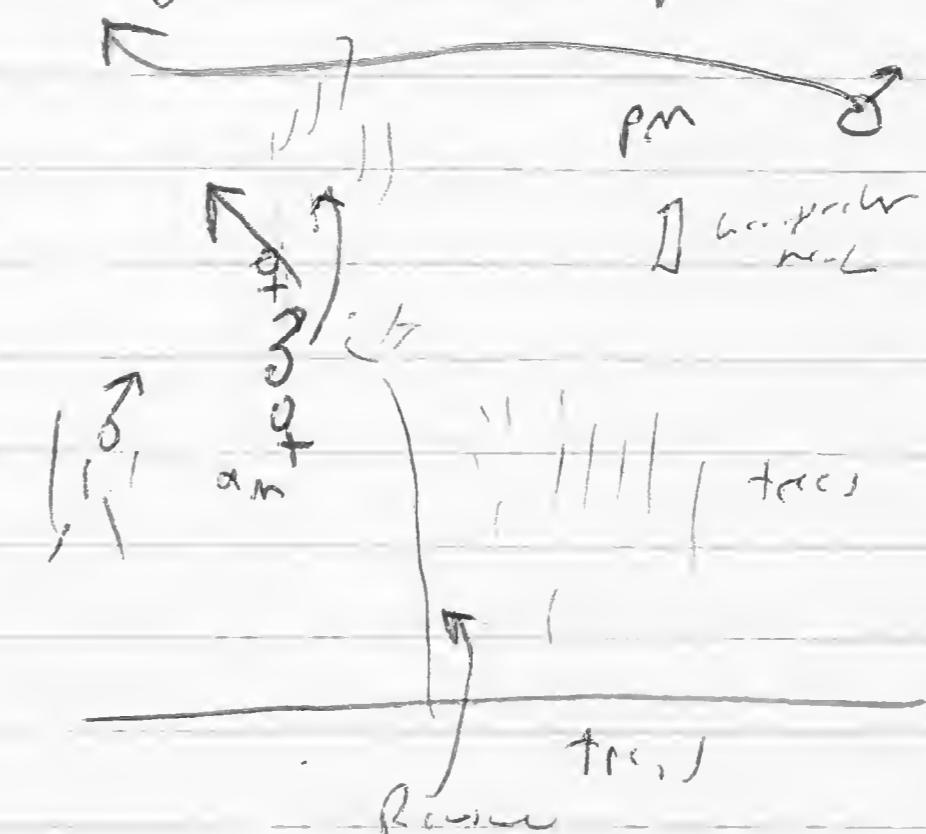
checked nest or built on 1/2

& ~~it~~ it was complete with

no eggs.

B+w warbler nest had 5 eggs
seen no warblers

Territory on low slope:



1/6 minutes

135

250 C.O.

350 Dogwood

450 Pencil

550 Oak

650 Sis

750 Pine

850 Oak

950 2m fly 17

1000 1m 27

1150 Dogwood

1250 2mn sp. 17

1350

2 mn oak wood

1b

14 Birch

15 Oak

16 ? 50

17 ? 50

2mn sp. 17

18 C.O. 50

19 H.ay 50

20 Ry 50

21 50

22 50

23 1mn 50

24 1m, 250

25 50

26 1m, 250

1mn total 17

1mn more 210

4mn sp. 17

27 160 ± 50

+ 50 - 0

28 50

3mm bushy 1b

+ 50 - 0

29 80 - 100

+ 50 - 0

30 1.0 n

+ 50 - 0

4.0 1

9.00

(1) 3mm sp. Ar Tb

1 50

3mm long spine 1b

+ 50 - 0

2 50

+ 50 - 0

3 50

3mm clavrid 1+

+ 50 - 0

4 50 - 0

+ 50 - 0

14 00-0

6 June 930-330

15 00-0

Went up with Kim Young.

16 00-0

Spat - mud at mornings

17 00-0

Staking out slope next-

18 00-0

We narrowed down location

20 00-5

on upper slope sin 8° from

✓ locat tree - 1bgs x 6 -

1bgs x 2. At 8 sin start down

on way to next one

checked next on side of slope

Ant of sin 20° in cherries

Saw no foraging with

all over slope but no luck.

3 on lower hickory trail

quiet.

Found two ♂'s in underlay

below ^{upper} parking lot. Followed +

ask + saw in small

✓ circle. 1 big + 4 6' in level.

Went back down + found

holy on lower slope -

One diggerid rockbird + 2 ss + 1 warbler!

egg

♀ shot off nest on

ground violently.

7 June 930 - 960

checked on white trail -

3 sing below sassafras grove.

didn't see it.

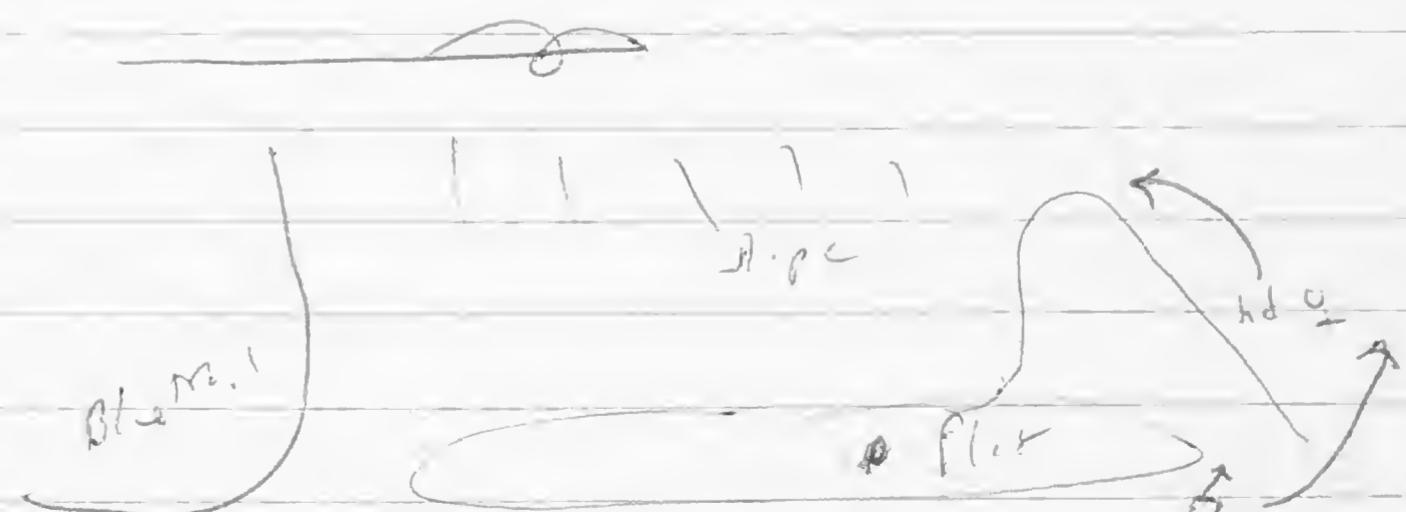
3 sing at parking lot area!

cut to black trail + checked out

territory at curve in black trail -

no holy.

shy pair on slope:



♂ giving - sing + short

sing from underbody - b.r.L

birds chipping.

✓ 4-6' laurel; 1bgl x 8 dead lat (O.h) x
↓
12cm catapillars

8

I watched 3 on

terracettes below parking lot.

I've never had this bird

below. 3 seen sporadically

mainly from trail shrubs

at one point it was
close to ground - I watched

this case a bird attack

later + gave short tail -

likely area to chick out

Ferry:

Laurel 6' - 1bgl x 4

✓ C. oak 15' 1bgl x 2

Laurel 6' 1bgl x 2 - poll.

Laurel 6' 1bgl x 4

7-2' off sand 1t glen
ground forage.

Bt w w w b - 4 new babies! tess

DEW no 2 - slope - 3 incubating
babies - 4-5
+ destroyed w w b egg.

Insect cases - broad leaf plants

1 ♂ - 0

2 ? - 0

3 Myia 1 mm mouth 1 b

4 Psylla - 0

5 Mysore

6 ? 2 mm mouth 1 t

7 ? - 0

8 ? - 0

9 ? - 4 mm mouth 1 b

10 ? - 0

11 ? - 0

12 - 0

13 - 0

14 - 0

15 - Immature

16 Mysore

17 - 0

18 Myia 1 mm mouth 1 b

- green hairy mouth 1 b

19 Myia - Immature

20 Myia 3 mm mouth 1 b

21 Psylla - 0

22 ? - 0

23 2 mm mouth 1 b

24 Jelly - 0

25 Myia - 0

26 - 0

27 Jelly + 50 - 0

28 beetle
- black beetle

29 5 mm
- brockle br 1 b

30 C. O. n
- Immature
- 0

68 Sugarloaf - top 830-300

I checked out Kirby below

top parking lot. - ♂ was -

area going short song but

I didn't see or hear ♀.

✓ I saw triporphyous bird in
Cherry, our parking lot 20' - 1bgl, 1bhey.

I check Kirby below state park -

hd ♂ + probably ♀ as well -

below mossy firs grove. - that's all.

Didn't see or hear ♂ on slope

at mtn.

at beginning of blue trail (JUL)

below parking lot - hd ♂ probably

♂ from Kirby below lot.

✓ vary from local - 1bgl x 2.

At ^{beginning} of blue trail +

blue trail (down blue tra. 120 m)

✓ I saw ♀ Kirby - local (1bgl x 16

(1bheas x 1) 1bglarge jet pillar from

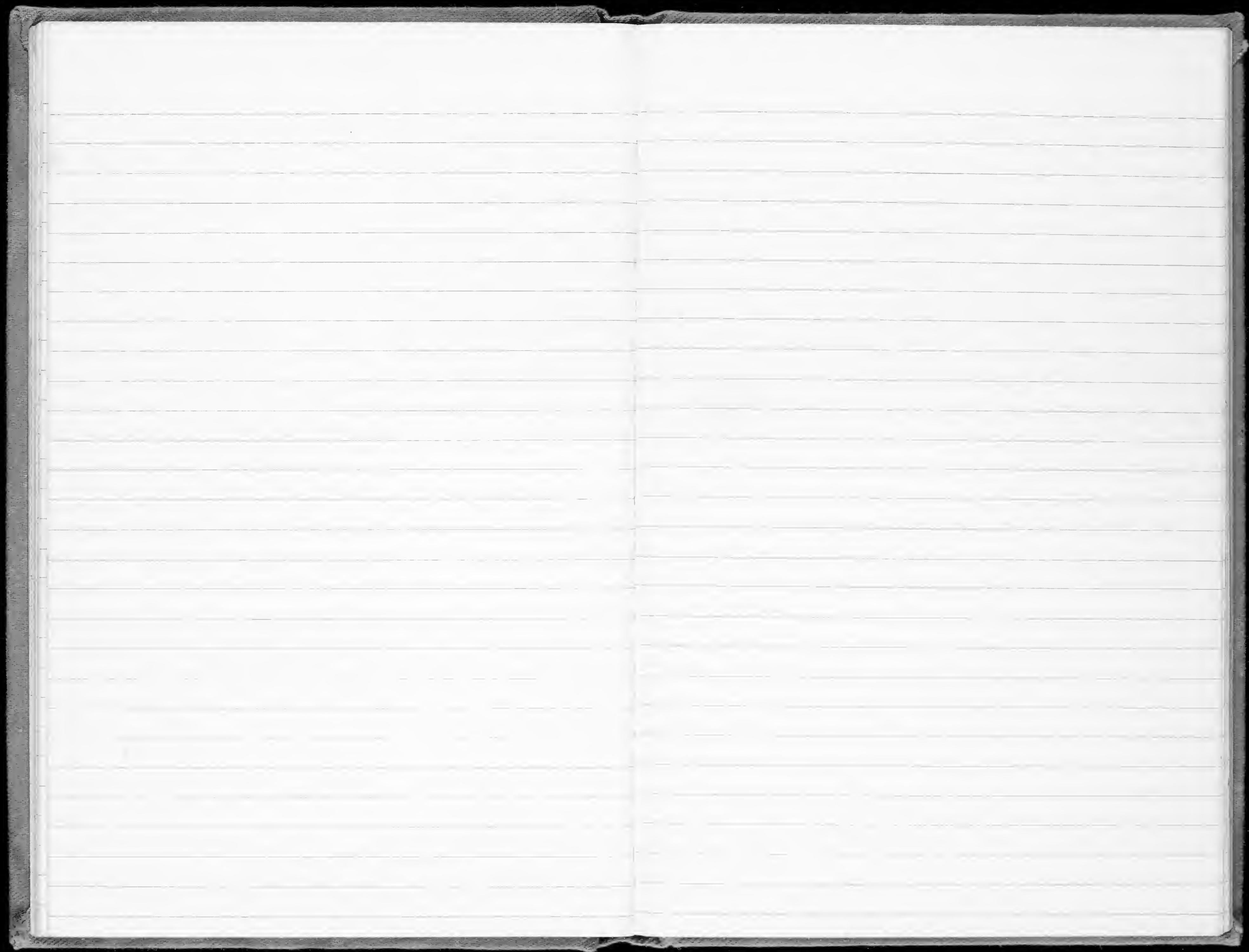
pet. I.C.

followed to left side of

trail + 1. t. +

want to pic I saw

yesterday at one of



blue tail. After the sun

set - they were quiet + tame

& I got lot. of feeding data

✓ 1b/gt or laurel x 20 Dead leaf probe x 5
(got one thing)

1b holly 6" x 1

1b holly x 2 - got 2 green pillars.

sun - looking & one bird sunned
itself.

5 B+w warbler was feeding

a newly fledged bird

June 1 100 - 3:00 pm

I cleaned territory below parking lot
♂ was singing - further down slope
than I had been looking for nest

✓ 1930' ± oak - dead leaf check → Laurel 6'
(holly x 3)

We (Jim Lynch + I) checked territory

below white tail - ♂ chopped in

one after 2 was mobbed by chickadees

it was initially in 1' sunken

✓ 1930' B+w warbler 8' Laurel - dead leaf check
flower glass.

I found it in the same area again.

♂ on slope at mt. was silent

nest by white tail had 3 eggs +

♀ incubation.

The big news is that pair
at beginning of white trail were
heard from - 3 wks singing 30'
in one & lowly & thick
the hole was well.

it flew well - do well

to follow

Btw warbler nest was empty!

I checked over at Harxtail-

Blue trail junction & none

of Blue trail: for is 2

✓ saw singing ♂ ^{10'} in Pine tree (body) x 10

foliage green top), I see

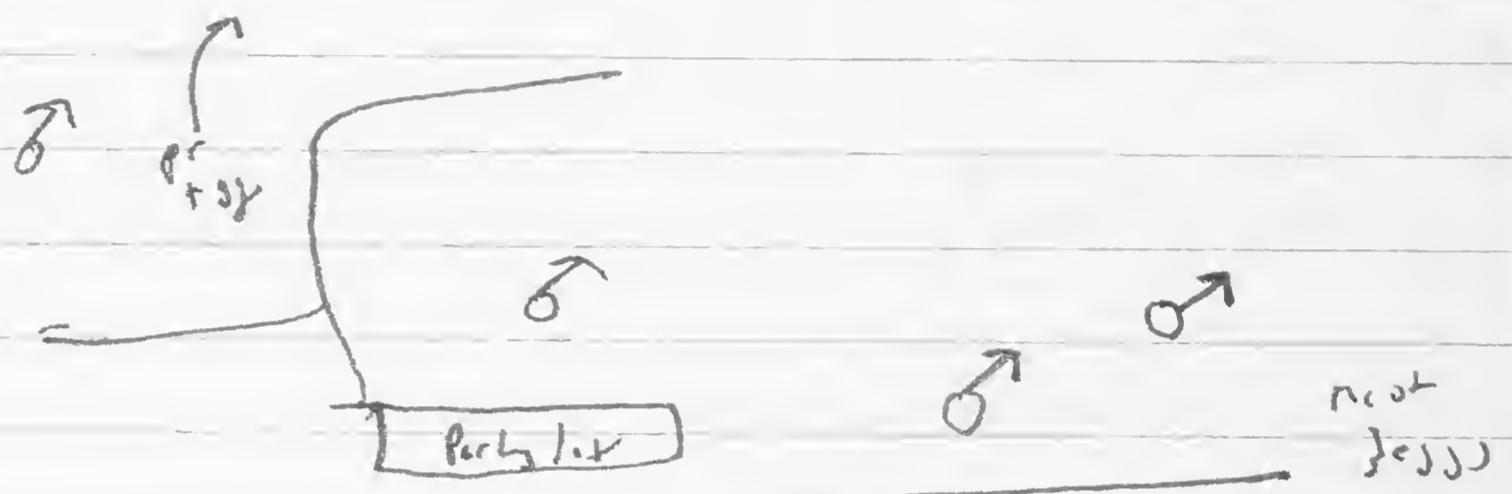
✓ bird in same area 2 followed

pair regularly - 7 in total - (body) x 3.

an 15 min later I saw them

1 + fledged baby (short tail - still

some head down ^{short bill} & baby lips).



12 June - Hot First truly warm day

I checked current frosty -

rode up my hill chip note

at bird sun pos; fully unfrosty

0-6' up quickly + truly unfrosty

sawed out + pruning (8" saw brush)

good fuel x 3?

1hgt unfrz tree (b, l, t)
1hgt forest

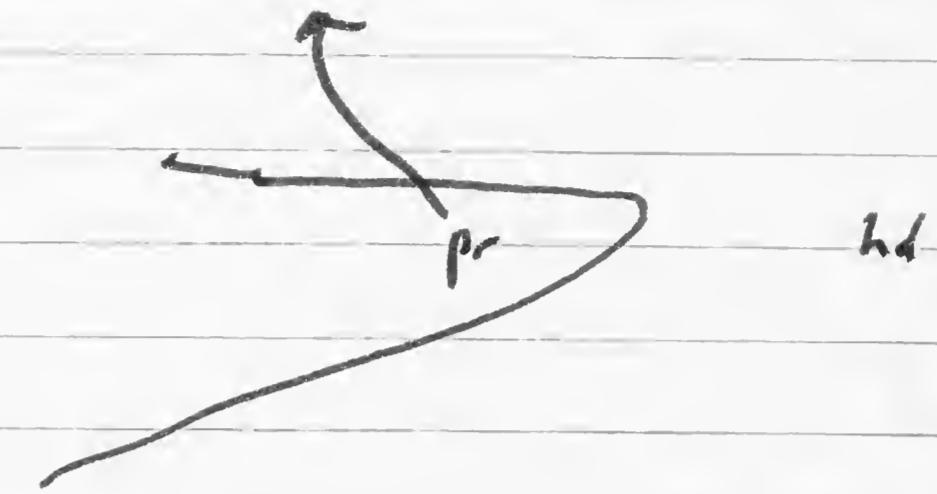
(+ gl) - honeysuckle

bush gl > 2 (1' p. l. r.)

Pink doggl x 2

my be slope-avt bids -

not w/ checked + no emptys.



check slope frosty below what trail -

no hgt. Also no cold fuel

frosty on side of mtn.

+ hd + sun 5 on frosty

below partly lot fr tree on br

percolate

✓ Oak 30' 1hgt x 7

Mgh 20' 1hgt

Larch 4' 1hgt x 7 few prob & 3

13 June

N. sign at 9 - 5 h.p.h.

goats found in circles w

I followed.

8 ears + pretty sore
briefly

n. moh

white tail

n. moh

larch areas

- 1
- 2
- 3
- 4
- 5
- 6
- 7 2mm long, 1b, 4mm up, long 1^{1/2}
- 8 7mm fly H
- 9 3mm fly 1^{1/2}
- 10 3mm fly 1^{1/2}
- 11 " " 1^{1/2}
- 12 " " 1^{1/2}
- 13 " " 1^{1/2} forest edge
- 14 1.3mm pillar 1^{1/2}
- 15
- 16
- 17
- 18
- 19
- 20

13 June hot 800-230
7 chick Kirby below park lot

3 hrs. in morning + 1/2 hr. in

afternoon. lot of action on

upper slope where I suspected

nest might be - ♂ sing -

then short song + 2 sing

✓ briefly [Oak 20' 1b g (x2)
sits small pillar

saw bird here several times.

I wandered on slope below

(Horn trill + BL. trill)

hd Br. # sun ♂ sing

✓ 30' in oak 1b g) x 2
big wood feed oak leaf

sun + hd pr + st hawk

one juvenile way down slope

down blue trail. ♂ sing

periodically around young.

young - w. - first on

sun - perched in tree +

flew up into oak. - high

twittering contact note to
parent.

14 June - sunny hot 830-430

I check territory below white tail

This morning ♂ sang +

✓ I wait 2 hr : 0.6 (hang on DL Och)

then I see peregrine 4 with

green grubs in bill back in level 3-5'

16 gl x 4 16 lg x 3 Knock + drop to
ground 2

I spent until 2:00 trying to

see where nest was + only

1A S - each time

at trail 2 saw broady ♀
fly across. I followed many

first - i 10 minutes I see. I

feed 114 times, A. + probably

feed more = 40 times. + k + drop

to ground once for a pilk.

2 times 1t gl., 2 times 1g

+ 5 times hiry + 100 times 1bg (

mostly small (I see only 4+

pilus go down) I had 5 nests

+ saw broady ♀ Brown-headed

bark-scraping

Loc. Collection 5 ~ June 5
at parking area.

Grubs 4mm 1

10mm 4

Spiders 1mm 2

4mm 9

7mm 3

Hemiptera nymphs

2mm 1

3mm 2

Beetles 1mm 2

3mm 2

Worms 6mm 1

Ant 7mm 1

Moth 1mm 1

1mm.

Loc. Collection 1 May 19
Top parking lot

Spiders 1mm 2

3mm 1

5mm 26

7mm 5

Grubs 1mm 82

fly 2mm 2

Yellow jacket

2

Crabs (Heg)

4mm 1

8mm 2 (green)

12mm 1

13mm 1

Beetles

1mm 2

2mm 1

4mm 1

5mm 1

8mm 2

leaf hoppers 6mm 1

Sprinkler 5x1mm 2

Spring tail 3x2mm 2

mosquito 1mm

beetle larvae 3x5mm 2

weevils 6mm 1

May 26 Collection 2

Spiders ^{1mm}
B

8mm 5

Birches

1mm 3

7mm 2

7mm 1

WCCW 7mm 1

Strips?

4mm 4

5mm 2

Grub 12mm 2

13mm 1

8m 1

Mite 2mm ?

(+ 3m)

1Kmp. 15

15mm 1

17mm 1

5 July 200 - 530

Locality

1 ^{"Lorry"} ~~Rect~~ - 4mm long 1b

2 " ~~2cm diameter 1t~~

3 " - 0

4 M. pl - 0

5 " - 0

6 " - 0

7 " - 0

8 ~~Sectum~~

9 clay ~~5mm bubble 1t~~

10 " ~~1mm ^{hollow} bubble 1t~~

11 M. pl ~~1cm honey 1b~~

12 M. pl ~~1mm bubble xL 1t folded~~

13 M. pl

14 M. pl

15 M. pl

16 ~~Sectum~~

17 ~~Sectum~~

18 ~~chairs~~

19 M. pl -

20 clay - ~~1mm brown or honey 1t~~

21 M. pl - 0

22 Chestnut - 0

23 " - 0

24 Maple - 0

25 Maple - 0

26 Maple

27 Maple - 0

28 clay ~~1mm ^{hollow} bubble 1t~~

29 chestnut - 0

30 ~~3mm ^{hollow} bubble 1t~~

12/1500

1mm
hollow

Level (or x)

1 0

2 0

3 0

4 0

5 min jump 1b

6 min sec-holding 1b

5 0

6 0

7 min jump 1t

7 0

8 0

9 0

10 0

11 min 1b green holding

11 0 - 2 min split - each

1 min w.p. 1b

12 0

13 1 min split 1b

14

5 min jump 1b x 2

15

0

16

4 min holding through 1h

17

1 min jump 1b

18

1 min op. 1. eng + 1t

19

0

20

4 min tr. jump 1t

9 / 1,000

26 June 10-300

I worked on trinity below
parking lot. I saw ♂ in
scrubland by gap + it fed

✓ 4 times on 1b 3' up. I check

slope trinity below Horse Tr. +

saw nothing. ~~I also checked~~

♂ chased redbird singing sweet song
later I saw ♀ redbird in undergrowth 1.5 ft

27 June 8-200 looking for nest

I worked on trinity below

pubs lot + looked west to the

✓ actual thicket - I saw bird 1b 10+ min.

in front a pile + small scrub lot

without getting anything. I

found nothing on slope by Horse Tr.

Lots of chirps + some vs by ♂

29 June

I also checked slope by lower pinewoods + heard nothing

to June 28 300-500

Hd + sun + vew in the

gap below parking lot - today

I heard no singing at all even

when I approach not arca.

no foraging. Nothing on

slope territory

broad at 2 juv. \approx 2 w old
(from middle of postjuvenile molt

(most full grown tails) -

on white tail next in taxidermy

grave.

Parents much faster 1-5 minutes

probably mainly ♀ - \approx LJ

♂ singing briefly. Both young small

prey - mostly green pillars.

✓ ♀ found on 1b11 (17+ min) in

lure - saw 2 dead but chicks +

one large at D.L.

babies present + explore rapidly

I see them both pull at

20+ different branches, 7 dead

leaves + 3 live leaf let

clusters - they ~~were~~ pulled +
grabbed at irregularly on bark.

I see 1st sp. inst. of leaves.

they seldom followed adult,

to find the tiny meal

slowly staying in one place

then halting - perhaps in response
to my presence.

29 Dec live leaf clusters

1 ♂ 86 - M. n. l.

2 ♂ 0-0.4 m

3 ♂ 1-0.4 m

4 ♂ 0.5 m

5 ♂ 1.0.4 m ~~some lumpy stuff~~ 1 b

6 ♂ M. n. l.

7 ♂ -

8 ♂ ~~2 in green grub 1 b~~

9 ♂ - ~~2 long green grub 1 b~~

10 ♂ Bird

11 ♂ (Larva)

12 ♂ ~~own height right 1 b~~

13 ♂ ~~24 1.5 in green grub 1 b~~

17 ov

18 50 Maple -

16 50 - less

17 ov

18 50 Maple

19 50 Maple

20 2 Tan spruce 1b

21 ? 3 ^{adult} + 1 ^{young}

22 C. ova - 0 thin green long 1b

23 Oak - 0

24 C. ova

25 C. ova

26 Maple ov

22 chestnut

28 C. ova

29 ov

30 C. ova -

13/1500

Larry

1 50
2 50
3 - 0
4 0
5 0
6 0
7 0
8 0
9 0 } low up, head 1b
10 0
11 0
12 0
13 0
14 0
15 0
16 0
17 0
18 0 } low down 2nd 1b
19 0
20 0

1h, 110

July 7 continued

I watch WEW family along
Blue + white trail. P. + 2 yg.
The young are essentially adult ±
plumage + are distinguishable largely
by vocalization + behavior. They are still
fed every 10 - 15 minutes. They
covered the same area they did last
week - staying low in laurel understory.
Juveniles still remained localized
+ parents forced out to get food -
Given the dense shrubbery visual contact
seems unlikely. The ♀ looked at
one dead oak leaf, but all tiny was high
✓ I saw 7 such flights - 7 of which
were successful (2 for *Isocoma pallens*)
7 were at laurel + 2 at lake.

The young attempted flight at
dead white laurel 5 times - by jettisoning
at first - 3 were oak + 2 laurel.
I saw 25 - 30 flights at laurel
lake bottom - some were successful +
2 back slugs. Juveniles tumbled
to ground 2x + attempted to
hurtle down.

I heard singing by ♂
but no singing

At first the group seemed
locally associated with
checkers. Later I saw
♀s clear back lot between them
to feed young.

if I b gloried randomly at
clarry shrubs 15 times & got
one spiliorid to bring to young

Young must be quite young.

I checked out birds by
clearing ~~← seen~~ below
perch lot. But came into squirrelry.

pc. was feeding two th birds

in clarry thicket (they went
to tree shrubs) I only had
warbler begging chips - no (verbals)

✓ adults perched at dusk (1100)
7 times all look - only the bird

hurried over to perch left.

6 July 1-5 pm

I checked along White +
Blue trails + down slope from
blue trail for LEW. One
mobbed me in area below
parking lot - but I saw no
foraging.

I found a family group
(2-3 yrs) near top of S-slope
(Red trail). Initially an
adult joined chickadees mobbing
me - in dense scrub growth.

It followed it to family which
was in lowland understory. I
followed into gap + then
they went into tall scrubby.

The young were old + indistinguishable
from adults - feeding by parents
was infrequent. + all birds
fed actively. At the association
was loose with parents
usually in different trees

✓ from young. I saw 2 died last
week (no success) + 8 1/2 grams -

2 to Oak, 3 to laurel, 1 to grape
& 2 to Apple tree? (old
Orchard). Adult carried live
beetle to feed.

On backside of Mtn I saw
♂ with green grub - 1 lb grain
~~toe~~ cherry. It was probably
✓ going to a nest somewhere.

Permit
Insist b. 1983

Sample May-June

19 41234 .014 .047
11 1028 ? ?

14 July

21 20

.106

14 .046 .16 .034 +

14 .059 .008 .025

14-15 July

24 .194 .052 .01 -

25 .153 .09 +

26 .229 .034 0 tru.

28 .192 .05 +

29 .2366 .612 .005

7/16/2

Broad

1 D

2

3 O

4 O

5 Small crop

6 O

7 O

8 O

9 Dried grass

10 Dried grass

11 Dried grass

12 Dried grass

D

B

3 Barns & P

4 Barns & P

5 Barns & P

6 Barns & P

7 Barns & P

8 Barns & P

9 Barns & P

10 Barns & P

11 Barns & P

12 Barns & P

Sheds

From 200-500 I followed
the main ridge the path was
a trail down towards the
Hilltop followed S. N. the 20m
down ridge after
the hill was still 100' off
also the farm is being
prepared for the fall. I also saw
a few houses were
abandoned they were isolated
just a small camp in the
valley a few houses with
nothing between. I went for
a walk on the trail up
the ridge along

Transcribed notes

the same place been working today
(in the stream bed) - g-r had
nothing to do with the adults.

The next lot 0-20' up river
 \checkmark 5-10' I saw 25+ frogs
all adults no eggs or 2 traps

\checkmark From to 20' up river
g-r adults + 5 to maturity.

at 5-10' down the river
I saw 12 adults & two larvae.

7 oak shells + 5 others?

one oak seedling - big pile of shells
was dropped down the river

stacked along bank at

low - on back side down river

Pearson's saw a bird of a

small & round. + 5 times

in glass bottles. Unusually little day

in a private house at

dropped in yard. Let g-r

adults get away down river.

In fact the bird was very
unusual.

15 June 9-900

I check territory below parking lot.
♂ was singing as usual but I
failed to see ♀. I then check
slope territory below white trail,
♂:♀ interaction - like yesterday

♂ 20' oak branch pile x 3

switched bucket earth like a BHW.
1lb gl - no ♀.

Later I saw ♀ - also trail +

\checkmark in lower 3' 1lb gl x 3 - got one
pillar.

I saw ♀ calling pillars on lower

territory at 3:00pm + she 1lb gl x 7
in lower 3'. I saw ♀ out bird
off nest.

I also saw Bl W Wabler

territorial borders dispute

one ♂ gave a sharp

staccato chp + it followed.

two staccato b.t

June 17 800-330

I check territory on slope

below white territory. As in

put two mornings, the ♂ was

singing close to newberry 85 -

but then upper to bc 2

close neighbors.

Songs are interspersed with

the angry-like song when

♂♂ are close. 2 juv ♂

✓ 1b 1r 4 in Alder &

peel leaf forgr. 2 hairy

chipping at adults from

territory closer to

packing lot on the

same slope - but I didn't

see the birds (♂ started

sing + ♂)

2 chicks trying below
parent lot + ♂ was singing

and dropped into Laurel
Hsgt x 7 4' up

a) Well, he didn't see it.

I check slope below large tr. 1

neighbor ♂ sang + 2 Ld

Copy the song once.

but I didn't see anything

I found a pair at Rocky

~~Look on white tail of Ibul 1 & 2.~~

lurel 6' + fed a very young

Planning - 5 say directly.

I had a beetle or spider to

size b.ty. B.ty ^{pink} ~~pink~~

still on lateral branch

June 18 830-430

I checked territory below
white tr. l (3 hrs) 3 Surg

22 June 1230-1730

I then spent 4 hrs on
territory below parking lot

I saw ♀ off nut - fast feeding.

1 bgl in laurel x 10

succulents 1 bgl x 6

✓ curled leaf pink x 2

watched for it murred 5 sec

short song abt lot, &

& didn't see it again.

6' dropped

to ground
once

parking lot for several hrs -

the birds were burned together

going up slope + I also saw

them near the parking lot -

one my tree had caterpillars in

b.l. I found nest

with 00 b-tits probably tufted,

23 June 800-400

I chicked breeding below

privy lot. Saw birds, main up

slope 2-3 times ♂ sang

short song & crows heard

✓ times. ♀ was B' in Azalea.

I saw 7 lbs, in Azalea

(1 pair) chick in dock

litter cluster (no hatching) located

on ground once. I saw a

pair of ? singing below house

tr. 1 ♂ had spilling bill

of gut off nest - know w'

20-30' in oak +

checked 7 dead leaf clusters

✓ in a row rapidly.

I later saw q in same area

✓ I also saw 5 feed 1b, 1x4.

June 24 930-1230. very hot

didn't see birds on house

tr. 1 slope despite 3 hrs

✓ each I briefly saw 5

on slope below privy lot.

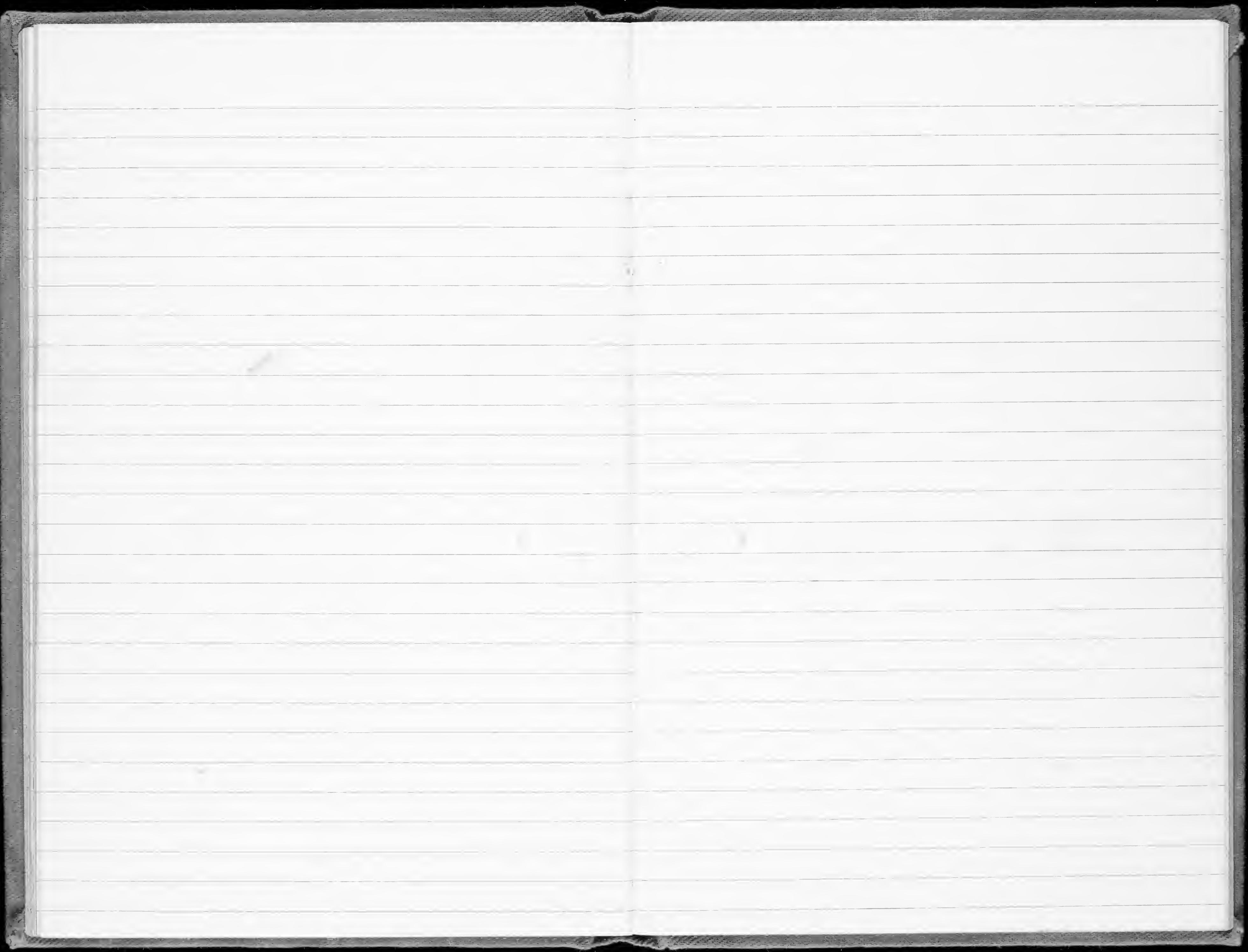
[I saw B+w Wabler ♂ 1b, 1x4

& chick in dock lot, also

same lot 1st hr on house]

Got Merle & Robin today

from nest below shrub th. 1



Oscillat size

Simple - non decaying or zero

$$\begin{array}{ccccc} 3(1) & 2 & 5 & 2 & 4(1) \\ 5(1) & 7 & 6 & 2 & 4(1) \\ 6(1) & & & & \end{array}$$

$$\begin{array}{ccccc} 4 & 4 & 5 & 5 & 3 \\ 4 & 7/2 & 3 & 4 & 2 \\ 3 & 4 & 3 & 3 & 3 \\ + & 3 & 3 & 3 & 3 \end{array}$$

$$\begin{array}{ccccc} 6 & 8 & 5 & 3(1) & 3 \\ 8 & 9 & 5 & 2 & 3 \\ 2 & 2 & 1 & 2 & 3 \end{array}$$

$$\begin{array}{ccccc} 2 & 5(1) & 3(2) & 2 & 3 \\ 2 & 4 & 3(2) & 2 & 3 \end{array}$$

$$\begin{array}{ccccc} 3 & 3 & 3 & 2 & 2 \\ 6 & 4 & 3 & 2 & 2 \\ 4 & 3 & 7 & 2(1) & 2(1) \\ 3 & 2 & 2 & 2 & 2 \end{array}$$

$$\begin{array}{ccccc} 5 & 2 & 2 & 2 & 2 \\ 3 & 2 & 3 & 3 & 3 \end{array}$$

$$\begin{array}{ccccc} 2 & 2 & 3 & 3 & 3 \end{array}$$

$$\begin{array}{ccccc} 4 & 5 & 3 & 3 & 3 \\ 4 & 4(1) & 3 & 3 & 3 \end{array}$$

$$\begin{array}{ccccc} 2 & 4(2) & 4 & 3 & 3 \\ 3(2) & & & & \end{array}$$

Sample 2

5	7	4	7	7
4	4	3	4	1
5	7	3	2	1
7	2	3	2	2
5	3	2	2	2
6	3	2	2	2
4	(1)	3	2	2
3	3	3	2	2
3	3	2	2	2
2	6	4	2	1
4	3	3	1	1
2	6	3	3	1
8	4	3	1	1
4	4	2	3	3
3	3	2	2	3
3	3	4	4	1
7	2	2	4	1
3	3	2	3	1
3	3	4	3	1

Sample 3

A grid of handwritten numbers from 1 to 9 arranged in a 10x10 pattern. The numbers are written in black ink on white paper with horizontal ruling lines. The digits are somewhat stylized and vary in size and orientation. The grid is centered on the page.

5cm

4
5
4
4
4
4
6
6
6
6
4
3
4
2
1

5
4
3
3
4
4
6
5
3
3
3
4

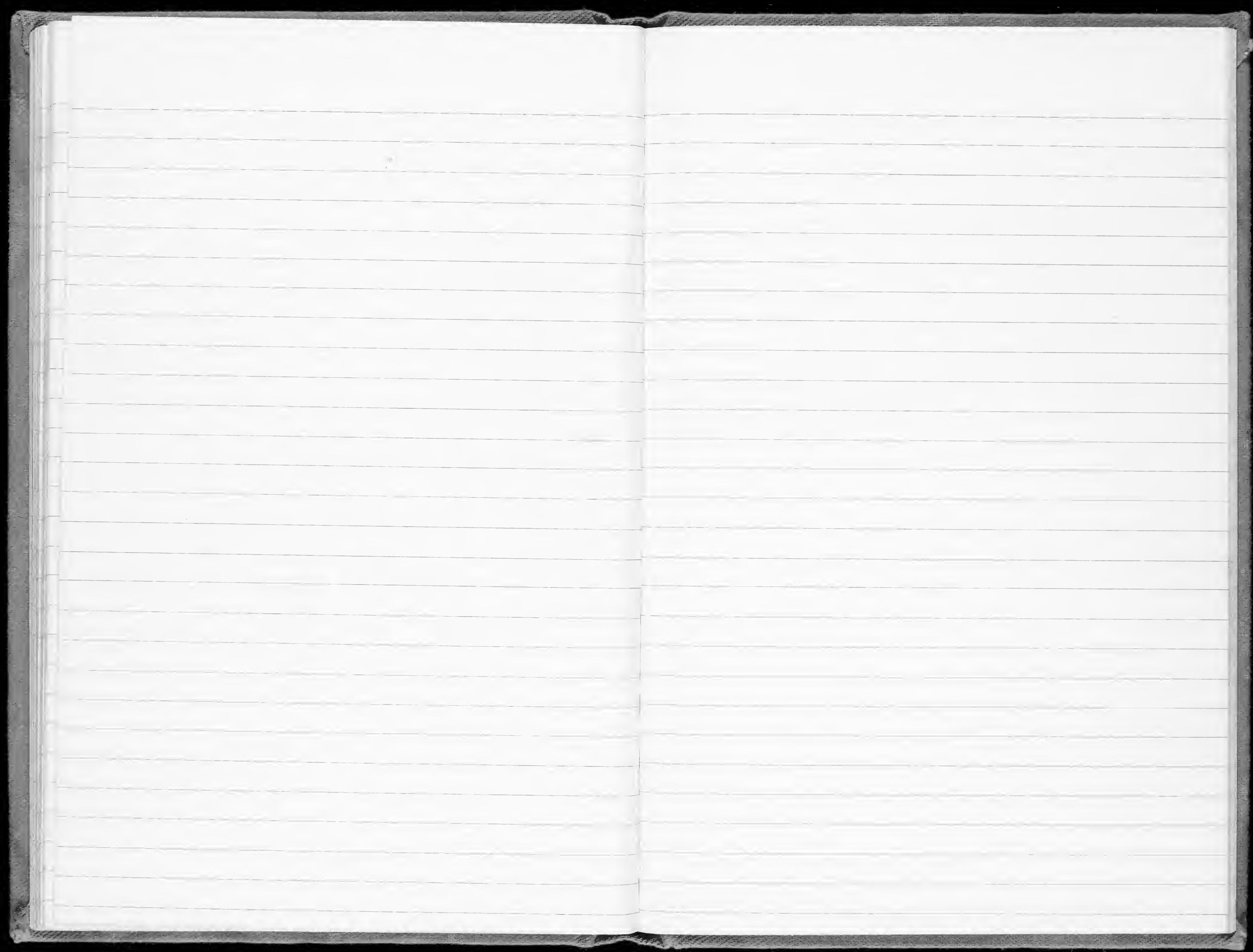
33334
43334
23334
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		Total /
May-June	2	10
	2	4
	3	4
	6	8
July Laurel		$\bar{x} = 10$
	9	12
	5	10
	1	12
	7	15

71,00

